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APPLICATION NUMBER: *09/531,484*
FILING DATE: *March 20, 2000*

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Transmitted herewith for filing is the patent application of

Inventor: GABRIEL FRIEDMAN ET AL.

For : SYSTEM AND METHOD FOR INCREASING SECURITY OF ELECTRONIC MONETARY TRANSACTIONS

Enclosed are:

- ☒ 2 sheets of informal drawing(s).
- ☐ An assignment of the invention to ____
- ☐ A certified copy of a _____ application.
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- ☒ A verified statement to establish small entity status under 37 CFR 1.9 and 37 CFR 1.27.
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Respectfully,

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APPLICATION FOR PATENT

Inventors: Gabriel Friedman, Uri Levi Yitzchak and Yitzchak Shachar

Title:

SYSTEM AND METHOD FOR INCREASING SECURITY OF ELECTRONIC MONETARY TRANSACTIONS

FIELD AND BACKGROUND OF THE INVENTION

The present invention relates to a system and method for conducting electronic monetary transactions and, more particularly, to a system and method which reduce the risk of fraud and theft, and which further protect consumer privacy, during purchases conducted electronically.

It is well known that the Internet represents the fastest growing media and encompasses, inter-entities communication, source of on-line

data, electronic commerce (e-commerce) and sales promotion. The market for Internet services was valued at $11.3 billion in 1997, and is expected to reach over $39 billion by year 2002. As a result, the Internet is developing as a global marketplace, with evolving infrastructures for e-commerce. Companies engaging in e-commerce via the Internet promote sales of products (i.e., goods or services) through the network. Payment is generally rendered by use of a user specific card (e.g., credit card, debit card), corresponding to a user account which, in turn corresponds to a set of user information (e.g. address, telephone number, e-mail address, etc.). Generally the user is required to forward such information to the seller.

Because of the tremendous growth in e-commerce, there is a potential for theft and fraud and a number of server security systems have been developed to minimize this risk. In addition, the idea that one or more unknown parties may acquire personal information regarding their identity, tastes and habits deters many potential consumers from engaging in e-commerce. These same considerations apply to credit card/debit card transactions via conventional means such as telephone purchases and mail order purchases.

In addition, some consumers do not have a credit card or a debit card, relying instead upon cash.

For these reasons, "electronic cash" has been offered as a purchase option (see, http://www.spendcash.com). Electronic cash is actually a prepaid temporary account from which an accountholder may draw against until the balance is depleted. While the card is user specific by virtue of a personal identification number (PIN) chosen by the purchaser, use of the card does not allow access to any information about the user other than that associated with the card. Since the card has a lifetime limited by the initial balance in the card account, collection of information regarding user tastes and habits is less feasible, and correlating between such information and user identity is nearly impossible. In addition, the user's exposure to theft or fraud is limited to the account balance. Electronic cash, in its current configuration requires purchase and subsequent activation via an Internet server with an activation Web page. Typically, this activation must be conducted by the user from a user client. The user client is most often not available to the user at the point of purchase of the electronic cash, typically in a retail outlet. This activation step is inconvenient and may deter some potential

consumers from using electronic cash in its current configuration. In addition, because the electronic cash system is currently separate from central banking clearinghouses used by credit card and debit card companies, electronic cash currently enjoys limited acceptance. Further, this electronic cash is currently only redeemable at Internet vendors. Still further, electronic cash is distributed in predefined values and its physical distribution may lead to its unavailability in terms of time of distribution and stock depletion. There is thus a widely recognized need for, and it would be highly advantageous to have, a system and method for conducting electronic monetary transactions which reduce the risk of fraud and theft, and which further protect consumer privacy, during purchases conducted electronically devoid of the above limitations.

SUMMARY OF THE INVENTION

According to one aspect of the present invention there is provided a system of facilitating electronic monetary transactions. The system comprises an automatic teller machine and a server. The automatic teller machine is constructed and designed for (i) debiting an account of a user

and/or accepting from the user an amount of currency; (ii) issuing a credit code being associated with the amount of currency and informing the user of the credit code; and (iii) updating the server with the credit code and the amount of currency being associated therewith, thereby establishing a virtual user account. The server is capable of communication with the automatic teller machine and is constructed and designed for (i) receiving data from the automatic teller machine of the credit code and the amount of currency being associated therewith; (ii) receiving or issuing an identification code and associating the identification code with the credit code, thereby activating the virtual user account; and (iii) debiting the virtual user account by a specified sum of currency upon request when presented with the credit code, identification code and the specified sum.

According to another aspect of the present invention there is provided a method of facilitating electronic monetary transactions. The method comprises the steps of providing an automatic teller machine and a server. The automatic teller machine is for (i) debiting an account of a user and/or accepting from the user an amount of currency; (ii) issuing a credit code being associated with the amount of currency and informing

the user of the credit code, (iii) updating the server with the credit code and the amount of currency being associated therewith, thereby establishing a virtual user account. The server is capable of communication with the automatic teller machine and is for (i) receiving from the automatic teller machine the credit code and the amount of currency being associated therewith; (ii) receiving or issuing a personalized identification code and associating the identification code with the credit code, thereby activating the virtual user account; and (iii) debiting the virtual user account by a specified sum of currency upon request when presented with the credit code, identification code and the specified sum.

According to further features in preferred embodiments of the invention described below, the account of the user is selected from the group consisting of a bank account, a debit card account and a credit card account, whereas the automatic teller machine is further constructed and designed for communicating with a server of a bank and/or a credit or debit provider.

According to still further features in the described preferred embodiments, the specified sum of currency, credit code and

identification code are presented to the server by the user via a user client at a discretion of the user.

According to still further features in the described preferred embodiments, the specified sum of currency, credit code and identification code are presented to the server by a vendor with the agreement of the user.

According to still further features in the described preferred embodiments, the identification code and the credit code are each independently a string of alphanumeric characters.

According to still further features in the described preferred embodiments, the credit code is issued in a form selected from the group consisting of a string of alphanumeric characters displayed upon a visual display, a string of alphanumeric characters delivered audibly from a speaker and a string of alphanumeric characters printed upon a tangible media.

According to still further features in the described preferred embodiments, the identification code associated with the credit code is generated by a means selected from the group consisting of (i) a user choice of the identification code communicated to the server by means of

an input device of the automatic teller machine; (ii) a user choice of the identification code communicated to the server by means of an input device of a user client at a discretion of the user; (iii) an assignment by the automatic teller machine of the identification code, once assigned the identification code being subsequently communicated to the server and provided to the user and (iv) an assignment by the server of the identification code, once assigned the identification code being subsequently provided to the user.

According to still further features in the described preferred embodiments, the automatic teller machine includes at least one item selected from the group consisting of (i) a monitor for visual display of data; (ii) a printer for printing data on a tangible media; (iii) a data input device; (iv) a mechanism for accepting, identifying and counting currency of at least one types; (v) at least one audio speaker for delivery of audio data; (vi) at least one mechanism for reading information encoded on a magnetic stripe; (vii) a bar code reader; (viii) a dispenser of pre-printed items.

The present invention successfully addresses the shortcomings of the presently known configurations by providing a system and method for

conducting electronic monetary transactions which reduce the risk of fraud and theft, and which further protect consumer privacy, during purchases conducted electronically which allows concurrent establishment and activation of a virtual user account, which may be used to conduct a wide variety of transactions.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention is herein described, by way of example only, with reference to the accompanying drawings. With specific reference now to the drawings in detail, it is stressed that the particulars shown are by way of example and for purposes of illustrative discussion of the preferred embodiments of the present invention only, and are presented in the cause of providing what is believed to be the most useful and readily understood description of the principles and conceptual aspects of the invention. In this regard, no attempt is made to show structural details of the invention in more detail than is necessary for a fundamental understanding of the invention, the description taken with the drawings

making apparent to those skilled in the art how the several forms of the invention may be embodied in practice.

In the drawings:

FIG. 1 is a diagram of an automatic teller machine according to the present invention in communication with a server according to the present invention; and

FIG. 2 is a diagram of a system for facilitating electronic monetary transactions according to the present invention.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

The present invention is of a system and method for conducting electronic monetary transactions which can be used to reduce the risk of fraud and theft, and which can further be used to protect consumer privacy, during purchases conducted electronically. Specifically, the present invention can be used to effect monetary transactions by means of a temporary user account which is identified solely by a credit code and an identification code.

The principles and operation of a system and method for conducting electronic monetary transactions according to the present invention may be better understood with reference to the drawings and accompanying descriptions.

Before explaining at least one embodiment of the invention in detail, it is to be understood that the invention is not limited in its application to the details of construction and the arrangement of the components set forth in the following description or illustrated in the drawings. The invention is capable of other embodiments or of being practiced or carried out in various ways. Also, it is to be understood that the phraseology and terminology employed herein is for the purpose of description and should not be regarded as limiting.

For purposes of this specification and the accompanying claims, the phrase "user client" generally refers to a computer and includes, but is not limited to, personal computers (PC) having an operating system such as DOS, Windows ™, OS/2 ™ or Linux; Macintosh ™ computers; computers having JAVA ™ -OS as the operating system; and graphical workstations such as the computers of Sun Microsystems ™ and Silicon Graphics ™, and other computers having some version of the UNIX

operating system such as AIX ™ or SOLARIS ™ of Sun Microsystems ™; or any other known and available operating system; personal digital assistants (PDA), cellular telephones having computer capabilities and Web TVs.

For purposes of this specification and the accompanying claims, the term "Windows ™ " includes but is not limited to Windows2000 ™, Windows95 ™, Windows 3.x ™ in which "x" is an integer such as "1", Windows NT ™, Windows 98 ™, Windows CE ™ and any upgraded versions of these operating systems by Microsoft Corp. (USA).

For purposes of this specification and the accompanying claims, the phrase "Web browser" refers to any software program which can display text, graphics, or both, from Web pages on World Wide Web sites and/or local files.

For purposes of this specification and the accompanying claims, the phrase "Web page" refers to any document written in a "mark-up language". For purposes of this specification and the accompanying claims, the phrase "mark-up language" includes, but is not limited to, HTML (hypertext mark-up language) or VRML (virtual reality modeling language), dynamic HTML, XML (extended mark-up language) or

related computer languages thereof, as well as to any collection of such documents reachable through one specific Internet address or at one specific World Wide Web site, or any document obtainable through a particular URL (Uniform Resource Locator).

For purposes of this specification and the accompanying claims, the term "Web site" refers to at least one Web page, and preferably a plurality of Web pages, virtually connected to form a coherent group.

For purposes of this specification and the accompanying claims, the term "Web server" refers to a server for providing one or more Web pages to a Web browser upon request.

For purposes of this specification and the accompanying claims, the phrase "display a Web page" includes all actions necessary to render at least a portion of the information on the Web page available to the computer user. As such, the phrase includes, but is not limited to, the static visual display of static graphical information, the audible production of audio information, the animated visual display of animation and the visual display of video stream data.

For purposes of this specification and the accompanying claims, the term "ATM" and the phrase "automatic teller machine" both refer to a

device capable of allowing self operated banking actions. Both ATMs located in a branch of a bank and those located at other locations are specifically included in this definition. Examples of transactions conductible by a user at an ATM machine specifically include, but are not limited to, debit of an account or credit to an account or deposit of cash to an account. Therefore, ATMs with one or more capabilities including, but not limited to, reading coded information on a card (such as an ATM card) or identifying and counting currencies, either bills or coins, are specifically included.

For purposes of this specification and the accompanying claims, the phrase "ATM card" refers to any card readable by an ATM machine including, but not limited to a credit card and a debit card. Specifically included in this definition are Visa ™ cards, MasterCard ™, American express ™ cards, Diners Club ™ cards, JCB ™ cards and/or cards belonging to networks such as PLUS ™, CIRRUS ™, PULSE ™ or MAC ™.

For purposes of this specification and the accompanying claims, the term "communication" refers to any means of data transfer including, but not limited to, data transfer by a telephone connection, a cellular

telephone connection, an Internet connection, an infrared frequency transmission connection, a local area network connection and a radio frequency connection.

For purposes of this specification and the accompanying claims, the terms "monitor" and "display" are used interchangeably to refer to a device which visually presents data to a user. Specifically included in the definition are cathode ray tube display screens, liquid crystal displays and light emitting diodes.

Figure 1 schematically shows a system for facilitating electronic monetary transactions according to the present invention, which is referred to herein below as system **50**.

System **50** includes at least one automatic teller machine **20** (hereinafter ATM **20**; only one is pictured) and a server **44** which are capable of bidirectional data communication there between.

ATM **20** is constructed and designed to perform at least three functions relevant to the present invention.

The first function is debiting an account of a user and/or accepting from the user an amount of currency. The account of the user may, for example, be a bank account, a debit card account or a credit card account.

It can also be a virtual user account of the user, as this term is further described hereinunder, or of another user to which the user have authorized access. In this case, ATM **20** is further constructed and designed for communicating with a server of a bank or credit or debit provider.

The second function of ATM **20** includes issuing a credit code which is subsequently associated with the amount of currency and informing the user of the credit code.

The third function of ATM **20** includes updating server **44** with the credit code and the amount of currency associated therewith, thereby establishing a virtual user account.

Server **44** can be a Web server and is capable of communication with ATM **20** and is also constructed and designed to perform at least three functions relevant to the present invention.

The first function of server **44** includes receiving data from ATM **20** pertaining to the credit code and the amount of currency associated therewith.

The second function of server **44** includes receiving or issuing an identification code and associating the identification code with the credit code, thereby activating the virtual user account.

For purposes of this specification and the accompanying claims, the phrase "virtual user account" includes temporary accounts which are automatically closed when the balance thereof reaches zero. Since virtual user accounts may often remain with small balances which are of little practical use, the scope of the present invention specifically includes the possibility of allowing a user to combine two or more virtual user accounts into a single virtual user account, to cash the balance, deposit the balance to another account such as a virtual account and/or a bank, credit or debit account of the user and/or other user(s). These functions can, according to preferred embodiments of the present invention, be executed either by a user client at the user's discretion and/or the ATM.

The third function of server **44** includes debiting the virtual user account by a specified sum of currency upon request when presented with the credit code, identification code and the specified sum. This third function of server **44** is repeatable upon user request until the balance in the virtual user account reaches zero. In some cases, this will occur when

the balance in the virtual user account is transferred to a second virtual user account, as described hereinabove.

Presentation of the specified sum of currency, credit code and identification code for performance of this third server function may, according to preferred embodiments of the present invention, occur in at least two ways. The first way is for the user to present the specified sum of currency, credit code and identification code to server **44** via a user client **40** which is at the discretion of the user. The second way is for an vendor to present specified sum of currency, credit code and identification code to server **44** with the agreement of the user.

For purposes of this specification and the accompanying claims, the term "vendor" includes any entity offering for sale any good or service. For purposes of this specification and the accompanying claims, the phrase "offering for sale" includes all means of commerce, including but not limited to, Internet sales known as e-commerce, mail order sales, telephone sales, fax order sales and physical purchase at a point of sale.

A vendor will typically employ a vendor server **42** to communicate with server **44** and ascertain the availability of funds prior

to completing a transaction with the user. Vendor server **42** can be a Web server to effect Internet e-commerce.

It should be appreciated that the identification code and the credit code are each preferably a string of alphanumeric characters and that use of these strings of alphanumeric characters does not necessarily require that they be written or printed on any tangible media. Accordingly, as shown in Figure 2, the credit code may be issued, for example, as a string of alphanumeric characters displayed upon a visual display **24** of ATM **20**, or as a string of alphanumeric characters delivered audibly from a speaker **28** of ATM **20**, or as a string of alphanumeric characters printed upon a tangible media (e.g., a slip of paper or a plastic card) by ATM **20**. Because the identification code and the credit code are independent of tangible media, they may easily be communicated by a user to a vendor by, for example, telephone, fax, or Internet.

The identification code associated with the credit code may be generated in a number of ways including, but not limited to, the following four exemplary cases.

In the first case, a user may choose an identification code and communicate the chosen identification code to server **44** by means of an

input device **26** of ATM **20**. Input device **26** may be a keypad, as pictured in Figure 2, or a touch-screen or any other input device.

In the second case, a user may choose an identification code and communicate the chosen identification code to server **44** by means of an input device of a user client **40** which is at the discretion of the user. User client **40** is typically a personal computer and, as such, the most common input device will be a computer keyboard. However, other user clients, such as cellular telephones with computing capabilities might be employed, in which case the input device would be the keypad of the cellular telephone. Any user client **40** capable of communicating with server **44** might be employed without significantly affecting the overall functionality of the present invention. In this case, establishing the virtual user account and account activation are conducted as two separate locations.

In the third case ATM **20** assigns the identification code, communicates the assigned identification code to server **44**, and provides the assigned identification code to the user.

In the fourth case, server **44** assigns the identification code and provides the assigned identification code to the user. This provision may

be either via ATM **20** at the time the virtual user account is established or via user client **40** at a later time.

As is further shown in Figure 2, automatic teller machine **20** may be designed and configured in a number of ways in order to implement the present invention.

Typically, ATM **20** will feature an armored faceplate **22** which conceals many mechanical and electronic components thereof from a user, and prevents theft of any contents of ATM **20** such as money and/or data. ATM **20** will typically further include a monitor **24** for visual display of data such as, for example a credit code, an identification code or a current balance of a user account and/or virtual user account.

ATM **20** may further include a printer **30** for printing data on a tangible media, for example paper or plastic. The tangible media is deliverable to a user via a slot **29** in faceplate **22**. Tangible media may be used to inform a user of, for example, a credit code, a identification code or a current balance of a user account and/or a virtual user account. Any or all of this data may be present either in a legible form, or as a bar code, or in both forms.

ATM **20** will typically include a data input device **26** pictured herein as a keyboard. Input device **26** may be used to perform a variety of functions including, but not limited to, selection of a credit code, selection of an identification code, selection of an opening balance for a new virtual user account, combination of two or more virtual user account balances, depositing remaining balances of virtual user accounts in other accounts, and/or cashing them as currency. In some cases input device **26** may be in the form of a touch-activated screen so that the function of input device **26** is physically indistinguishable from display **24**.

ATM **20** may further include a mechanism **32** for accepting, identifying and counting currency of at least one type in order to allow accepting from the user an amount of currency. Currency is insertable to mechanism **32** via slot **31** in faceplate **22**. The phrase "at least one type" here refers to at least one denomination in one currency, for example US one dollar bills. It will be appreciated that, in some cases, a user may wish to deposit currency of a first type (e.g., US dollars) into ATM **20** and open a virtual user account in currency of a second type (e.g., French Francs). Mechanisms for accepting, identifying and counting currency of

at least one type are commercially available and those skilled in the art will be familiar with method for incorporation thereof into an ATM.

ATM **20** may further include at least one audio speaker **28** for delivery of audio data, for example, a credit code, an identification code or a current balance of a user account and/or a virtual user account.

ATM **20** may further include at least one mechanism **36** for reading information encoded on a magnetic stripe, such as a magnetic stripe of the type commonly found on an ATM card, in order to allow debiting an account of the user. A tangible media bearing a magnet stripe is insertable into mechanism **36** via slot **35** in faceplate **22**.

ATM **20** may further include a bar code reader **34** for decoding information such as a credit code printed as a bar code. This feature is potentially useful for combining balances of two or more virtual user accounts. Tangible media imprinted with a bar code might be, for example, inserted in slot **33** of faceplate **22** to be read by reader **34**.

ATM **20** may further include a dispenser **38** of pre-printed items. These preprinted items, in the form of plastic cards or cardboard cards, would be stored in dispenser **38** and dispensed via slot **37** in faceplate **22**. Items stored in dispenser **38** would typically be preprinted with a credit

code. In some cases a denomination, for example $100, might also be preprinted. This information might additionally appear as a bar code or encoded in a magnetic stripe in order to facilitate subsequent reading by bar code reader 34 or stripe reader 36. Features of bar code reader 34 or stripe reader 36 might be built into dispenser 38 so that ATM 20 can acquire data pertaining to the credit code and the amount of currency to communicate to server 44.

Use of system 50 of the present invention constitutes a method of facilitating electronic monetary transactions. The method includes taking the steps of providing ATM 20 and providing server 44. ATM 20 is capable of performing three functions relevant to the present invention. The first function includes debiting an account of a user and/or accepting from the user an amount of currency. The second function includes issuing a credit code associated with the amount of currency and informing the user of the credit code. The third function includes updating server 44 by communicating the credit code and the amount of currency associated therewith to sever 44, thereby establishing a virtual user account. Server 44 is capable of communication with ATM 20, and of performing three functions relevant to the present invention. The first

function includes receiving from ATM **20** the credit code and the amount of currency associated therewith. The second function includes receiving or issuing a personalized identification code and associating the identification code with the credit code, thereby activating the virtual user account. The third function includes debiting the virtual user account by a specified sum of currency upon request when presented with the credit code, identification code and the specified sum.

Thus, the present invention provides a system and method for conducting electronic monetary transactions which reduce the risk of fraud and theft, and which further protect consumer privacy, during purchases conducted electronically, telephonically, via facsimile, etc., which allows concurrent establishment and activation of a virtual user account, which may be used to conduct a wide variety of transactions.

Although the invention has been described in conjunction with specific embodiments thereof, it is evident that many alternatives, modifications and variations will be apparent to those skilled in the art. Accordingly, it is intended to embrace all such alternatives, modifications

and variations that fall within the spirit and broad scope of the appended claims.

WHAT IS CLAIMED IS:

1. A system for facilitating electronic monetary transactions, the system comprising:

(a) an automatic teller machine being constructed and designed for:

(i) debiting an account of a user and/or accepting from the user an amount of currency;

(ii) issuing a credit code being associated with said amount of currency and informing the user of said credit code; and

(iii) updating a server with said credit code and said amount of currency being associated therewith, thereby establishing a virtual user account; and

(b) said server, being capable of communication with said automatic teller machine and being constructed and designed for:

(i) receiving data from said automatic teller machine of said credit code and said amount of currency being associated therewith;

(ii) receiving or issuing an identification code and associating said identification code with said credit code, thereby activating said virtual user account; and

(iii) debiting said virtual user account by a specified sum of currency upon request when presented with said credit code, identification code and said specified sum.

2. The system of claim 1, wherein said account of said user is selected from the group consisting of a bank account, a debit card account, a credit card account and a second virtual user account, whereas said automatic teller machine is further constructed and designed for communicating with a server of a bank or credit or debit provider.

3. The system of claim 1, wherein said specified sum of currency, credit code and identification code are presented to said server by said user via a user client at a discretion of said user.

4. The system of claim 1, wherein said specified sum of currency, credit code and identification code are presented to said server by a vendor with the agreement of said user.

5. The system of claim 1, wherein said identification code and said credit code are each independently a string of alphanumeric characters.

6. The system of claim 1, wherein said credit code is issued in a form selected from the group consisting of a string of alphanumeric characters displayed upon a visual display, a string of alphanumeric characters delivered audibly from a speaker and a string of alphanumeric characters printed upon a tangible media.

7. The system of claim 1, wherein said identification code associated with said credit code is generated by a means selected from the group consisting of:

(i) a user choice of said identification code communicated to said server by means of an input device of said automatic teller machine;

(ii) a user choice of said identification code communicated to said server by means of an input device of a user client at a discretion of said user;

(iii) an assignment by said automatic teller machine of said identification code, once assigned said identification code being subsequently communicated to said server and provided to said user; and

(iv) an assignment by said server of said identification code, once assigned said identification code being subsequently provided to said user.

8. The system of claim 1 where said automatic teller machine includes at least one item selected from the group consisting of:

(i) a monitor for visual display of data;

(ii) a printer for printing data on a tangible media;

(iii) a data input device;

(iv) a mechanism for accepting, identifying and counting currency of at least one types;

(v) at least one audio speaker for delivery of audio data;

(vi) at least one mechanism for reading information encoded on a magnetic stripe;

(vii) a bar code reader; and

(viii) a dispenser of pre-printed items.

9. A method of facilitating electronic monetary transactions, the method comprising the steps of:

(a) providing an automatic teller machine for:

(i) debiting an account of a user and/or accepting from the user an amount of currency;

(ii) issue a credit code being associated with said amount of currency and informing the user of said credit code; and

(iii) updating a server with said credit code and said amount of currency being associated therewith, thereby establishing a virtual user account; and

(b) providing said server, capable of communication with said automatic teller machine, said server being for:

(i) receiving from said automatic teller machine said credit code and said amount of currency being associated therewith;

(ii) receiving or issuing a personalized identification code and associating said identification code with said credit code, thereby activating said virtual user account; and

(iii) debiting said virtual user account by a specified sum of currency upon request when presented with said credit code, identification code and said specified sum.

10. The method of claim 9, wherein said debiting of an account debits an account selected from the group consisting of a bank

account, a debit card account, a credit card account and a second virtual user account.

11. The method of claim 9, wherein presentation of said specified sum, credit code and identification code to said server is performed by said user via a user client.

12. The method of claim 9, wherein presentation of said specified sum, credit code and identification code to said server is performed by a vendor with the agreement of said user.

13. The method of claim 9, wherein said identification code and said credit code are each individually alphanumeric character strings.

14. The method of claim 9, wherein said credit code is issued by performing an action selected from the group consisting of displaying an alphanumeric character string upon a visual display, delivering an alphanumeric character string audibly from a speaker, printing an alphanumeric character string upon a tangible media.

15. The method of claim 9, wherein generation of said identification code associated with said credit code in said user account is accomplished by a means selected from the group consisting of:

(i) said user choosing said identification code and communicating said chosen identification code to said server by means of an input device of said automatic teller machine;

(ii) said user choosing said identification code and communicating said chosen identification code to said server by means of an input device of a user client;

(iii) said automatic teller machine assigning said identification code, said assigned identification code being subsequently communicated to both said server and said user; and

(iv) said server assigning said identification code, said assigned identification code being subsequently communicated to said user.

16. The method of claim 9, where said automatic teller machine is capable of at least one action selected from the group consisting of:

(i) displaying visual data on a monitor;

(ii) printing data on a tangible media;

(iii) receiving a data input from a data input device;

(iv) accepting, identifying and counting currency of at least one type;

(v) delivering audio data from at least one audio speaker;

(vi) reading information encoded on a magnetic stripe;

(vii) reading a bar code; and

(viii) dispensing pre-printed items.

ABSTRACT OF THE DISCLOSURE

A system and method of facilitating electronic monetary transactions are provided. The system comprises (a) an automatic teller machine being constructed and designed for (i) debiting an account of a user and/or accepting from the user an amount of currency; (ii) issuing a credit code being associated with said amount of currency and informing the user of said credit code; and (iii) updating a server with said credit code and said amount of currency being associated therewith, thereby establishing a virtual user account; and (b) said server, being capable of communication with said automatic teller machine and being constructed and designed for (i) receiving data from said automatic teller machine of said credit code and said amount of currency being associated therewith; (ii) receiving or issuing an identification code and associating said identification code with said credit code, thereby activating said virtual user account; and (iii) debiting said virtual user account by a specified sum of currency upon request when presented with said credit code, identification code and said specified sum.

INDEPENDENT INVENTOR - NEW APPLICATION

Attorney Docket No.: 2048/1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In RE Application of: GABRIEL FRIEDMAN ET AL.,

Filed Concurrently Herewith

For. SYSTEM AND METHOD FOR INCREASING SECURITY OF ELECTRONIC MONETARY TRANSACTIONS

VERIFIED STATEMENT UNDER 37 CFR 1.27
CLAIMING STATUS AS A SMALL ENTITY

To The Commissioner of Patents and Trademarks:

As a below named inventor, I hereby declare that:

I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under 35 USC § 41(a) and § 41(b) to the Patent and Trademark Office with regard to the above-entitled invention described in the specification filed herewith.

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any party who could not qualify as a small entity under 37 CFR 1.9(f), namely any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each party, if any, who could qualify as a small entity under 37 CFR 1.9(f) and to whom I have assigned, granted, conveyed or licensed or am under an obligation under contract or law to assign, grant, convey or license, any rights in the invention is listed below:

Full Name (Party 1) : NONE

Address : _____

Status : ☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

Full Name (Party 2) : _____

Address : _____

Status : ☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

I acknowledge the duty under 37 CFR 1.28(b) to file, in this application, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the issue fee due after the date on which status as a small entity is no longer appropriate.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application and any patent issuing thereon.

GABRIEL FRIEDMAN
Name of Inventor 1

Signature of Inventor

Date: 3/15/2000

URI LEVY ITZCHAK
Name of Inventor 2

Signature of Inventor

YITZCHAK SHACHAR
Name of Inventor 3

Signature of Inventor

Attorney Docket: 2048/1
page 1 of 2

Combined Declaration For Patent Application and Power of Attorney

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled SYSTEM AND METHOD FOR INCREASING SECURITY OF ELECTRONIC MONETARY TRANSACTIONS, the specification of which

(check one) ☒ is attached hereto.

☐ was filed on as Application Serial No. and was amended on . I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed
NONE			☐ ☐
(number)	(Country)	(Day, Month, Year Filed)	Yes No
			☐ ☐
(number)	(Country)	(Day, Month, Year Filed)	Yes No
			☐ ☐
(number)	(Country)	(Day, Month, Year Filed)	Yes No

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States Application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

NONE		
(Application Serial No.)	(Filing Date)	Status (patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	Status (patented, pending, abandoned)

I hereby appoint the following attorneys, with full power of substitution, association, and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Mark M. Friedman Registration No. 33,883

Address all Correspondence to:

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Continuation of Combined Declaration For Patent Application and Power of Attorney

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statement may jeopardize the validity of the application of any patent issued thereon.

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19 HANACHAL, KFAR AZAR, ISRAEL		

*FULL NAME OF FOURTH INVENTOR	INVENTOR'S SIGNATURE	DATE
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	ISRAELI	
POST OFFICE ADDRESS		

*FULL NAME OF FIFTH INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE	CITIZENSHIP	
	ISRAELI	
POST OFFICE ADDRESS		

*FULL NAME OF SIXTH INVENTOR	INVENTOR'S SIGNATURE	DATE
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	ISRAELI	
POST OFFICE ADDRESS		

*FULL NAME OF SEVENTH INVENTOR	INVENTOR'S SIGNATURE	DATE
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Fig. 1

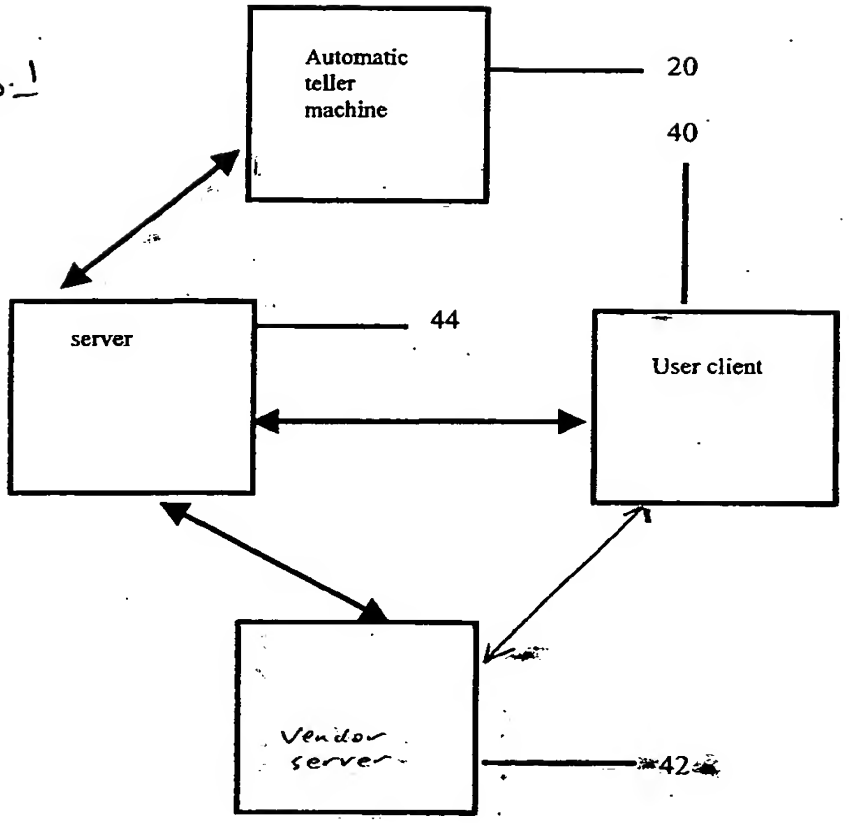
Automatic teller machine
20
40
server
44
User client
Vendor server
42
50

Fig. 2